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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/079,723	723 02/19/2002		Yong-Jun Kwak	678-807	7600
28249	7590	07/31/2006		EXAMINER	
		RRESE, LLP	MILLS, DONALD L		
333 EARLE OVINGTON BLVD. UNIONDALE, NY 11553				ART UNIT	PAPER NUMBER
	•			2616	
				DATE MAILED: 07/31/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/079,723	KWAK ET AL.			
Office Action Summary	Examiner	Art Unit			
	Donald L. Mills	2616			
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be ti od will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) ■ Responsive to communication(s) filed on 19 2a) ■ This action is FINAL. 2b) ■ T 3) ■ Since this application is in condition for allow closed in accordance with the practice under	his action is non-final. wance except for formal matters, pr				
Disposition of Claims					
4) ☐ Claim(s) 1-3 and 7-9 is/are pending in the a 4a) Of the above claim(s) is/are without 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3 and 7-9 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and Application Papers 9) ☐ The specification is objected to by the Exame 10) ☐ The drawing(s) filed on is/are: a) ☐ and Applicant may not request that any objection to the Replacement drawing sheet(s) including the contact of the con	Irawn from consideration. d/or election requirement. iner. accepted or b) objected to by the che drawing(s) be held in abeyance. So rection is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 1-3 and 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wu (6.836,469) in view of Fang (US 5,481,561).

Regarding claims 1 and 7, Wu discloses a medium access control protocol for multichannel communication, which comprises:

Generating a dummy bit generation request signal in the absence of the transmission data; upon receipt of the dummy bit generation request signal, generating a dummy bit stream by attaching the CRC bit stream to the dummy bit stream CRC (Referring to Figure 10, during the contention phase (generating a request in the absence of data) of the multi-channel MAC protocol of the WCDMA system, short packets 76₁-76₃ comprise dummy data (absence of transmission data) which are error-protected by an error detection code (CRC) are transmitted to the base station 75 via the M control channels 71₁-71_m when mobile stations 74₁-74₃ attempt transmission. See column 9, lines 7-8 and 19-27.)

Wu does not disclose transmitting a dedicated physical data channel signal.

Wu teaches sending short packets comprising dummy data via control channels, and transmitting data packets 78₁-78₃ via data channels 70₁-70₃. Fang teaches mitigating "near-far"

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problems inherent in a CDMA system by sending dummy data in the speech pausing period in data channels (See column 4, lines 62-66.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to implement the dummy data stuffing of Fang in the data channels of Wu with error detection.

One of ordinary skill in the art at the time of invention would have motivated to do so in order to maintain clock and code synchronization during idle periods of speech as taught by Fang (See column 4, lines 50-67 and column 5, lines 6-8.)

Regarding claims 2 and 8 as explained in the rejection statements of claims 1 and 7, Wu and Fang teach all of the claim limitations of claims 1 and 7 (parent claims). Wu discloses the dummy bit stream is equal in a number of bits to data bits transmitted over the control channel when the transmission data is present (Referring to Figure 10, short packets 76₁-76₃ comprise a dedicated frame size thereby equivalent to data frame transmission.)

Wu does not disclose transmitting the dummy bit stream over the data channel.

Wu teaches sending short packets comprising dummy data via control channels, and transmitting data packets 78₁-78₃ via data channels 70₁-70₃. Fang teaches mitigating "near-far" problems inherent in a CDMA system by sending dummy data in the speech pausing period in data channels (See column 4, lines 62-66.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to implement the dummy data stuffing of Fang in the data channels of Wu with error detection.

One of ordinary skill in the art at the time of invention would have motivated to do so in order to maintain clock and code synchronization during idle periods of speech as taught by Fang (See column 4, lines 50-67 and column 5, lines 6-8.)

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Regarding claims 3 and 9, Wu discloses the dummy bit stream has a predetermined

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number of bits (Referring to Figure 10, short packets 76₁-76₃ comprise a dedicated frame size

therefore the frame comprises a predetermined number of bits.)

Conclusion

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Donald L. Mills whose telephone number is 571-272-3094. The

examiner can normally be reached on 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Seema Rao can be reached on 571-272-3174. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Donald L Mills

Jem

July 6, 2006

Seema S. Ras SEEMA S. RAO 7/10

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600